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# Javier Troyano

Doctor of Philosophy in Chemistry and Materials

## Research Experience

- 2016 – Present      Post-Doctoral Researcher  
*Supramolecular NanoChemistry & Materials research group*  
*Institut Catala de Nanociencia i Nanotecnologia (ICN2) Bellaterra, Spain*  
Group Leader: Prof. D. Maspoch
- 2011 – 2015      PhD Student Research Assistant  
*Nanomaterials research group*  
*Universidad Autónoma de Madrid, Spain*  
Group Leader: Prof. F. Zamora
- 2009 – 2010      Undergraduate Research Assistant  
*Coordination Chemistry of Compounds with Metal- Metal Bonds research group*  
*Universidad Complutense de Madrid, Spain*  
Group Leader: Prof. Reyes Jiménez

## Education

- 2011 – 2015      Ph.D. in Chemistry and Materials  
*Inorganic Chemistry Department, Universidad Autónoma de Madrid, Spain*
- 2011 – 2012      Master of Science in Molecular Nanoscience and Nanotechnology  
*Inorganic Chemistry Department, Universidad Autónoma de Madrid, Spain*
- 2003 – 2010      Bachelor of Science  
*Facultad de CC. Químicas, Universidad Complutense de Madrid, Spain*

## Scientific Projects

- 2016 – Present      EU Horizon 2020 Research and Innovation Programme [PRODIA](#)  
*PROduction, control and Demonstration of structured hybrid nanoporous materials for Industrial adsorption Applications*

## Publications

- 8) Troyano, J.; Castillo, O.; Martínez, J. I.; Fernández-Moreira, V.; Ballesteros, Y.; MasPOCH, D.; Zamora, F.; Delgado, S. Reversible Thermochromic Polymeric Thin Films Made of Ultrathin 2D Crystals of Coordination Polymers Based on Copper(I)-Thiophenolates. *Advanced Functional Materials* **2018**, *28*, 1704040.
- 7) Avci-Camur, C.; Troyano, J.; Perez-Carvajal, J.; Legrand, A.; Farrusseng, D.; Imaz, I.; MasPOCH, D. Aqueous production of spherical Zr-MOF beads via continuous-flow spray-drying. *Green Chemistry* **2018**.
- 6) Dhainaut, J.; Avci-Camur, C.; Troyano, J.; Legrand, A.; Canivet, J.; Imaz, I.; MasPOCH, D.; Reinsch, H.; Farrusseng, D. Systematic study of the impact of MOF densification into tablets on textural and mechanical properties. *CrystEngComm* **2017**, *19*, 4211.
- 5) Troyano, J.; Perles, J.; Amo-Ochoa, P.; Zamora, F.; Delgado, S. Strong luminescent copper(i) halide coordination polymers and dinuclear complexes with thioacetamide and N,N[prime or minute]-donor ligands. *CrystEngComm* **2016**, *18*, 1809.
- 4) Troyano, J.; Perles, J.; Amo-Ochoa, P.; Martínez, J. I.; Concepción Gimeno, M.; Fernández-Moreira, V.; Zamora, F.; Delgado, S. Luminescent Thermochromism of 2D Coordination Polymers Based on Copper(I) Halides with 4-Hydroxythiophenol. *Chemistry – A European Journal* **2016**, *22*, 18027.
- 3) Troyano, J.; Castillo, O.; Amo-Ochoa, P.; Fernandez-Moreira, V.; Gomez-Garcia, C. J.; Zamora, F.; Delgado, S. A crystalline and free-standing silver thiocarboxylate thin-film showing high green to yellow luminescence. *Journal of Materials Chemistry C* **2016**, *4*, 8545.
- 2) Troyano, J.; Corral, I.; Castillo, O.; Zamora, F.; Mas-Ballesté, R.; Delgado, S. S–S Bond Activation in Multi-Copper -Aggregates Containing Perthiocarboxylato Ligands. *European Journal of Inorganic Chemistry* **2015**, *2015*, 4044.
- 1) Troyano, J.; Perles, J.; Amo-Ochoa, P.; Martinez, J. I.; Zamora, F.; Delgado, S. Reversible recrystallization process of copper and silver thioacetamide-halide coordination polymers and their basic building blocks. *CrystEngComm* **2014**, *16*, 8224.

## Conferences

**June 2017** - Poster presentation. XXXVI Reunión bienal de la Real Sociedad Española de Química in Sitges (Spain)

*Continuous water-based spray-drying synthesis of MOFs with industrial relevance.*

**July 2015** - Oral presentation. XXXV Reunión bienal de la Real Sociedad Española de Química in La Coruña (Spain)

*Multifunctional coordination polymers based on organosulfur ligands.*

**June 2013** - Poster presentation. XXXIV Reunión bienal de la Real Sociedad Española de Química in Santander (Spain)

*Bi- and three-dimensional coordination polymers with thioacetamide.*

**October 2011** - IV European School on Molecular Nanoscience (ESMolNa) in Peñíscola (Spain)

**February 2011** - XII Escuela Nacional de Materiales Moleculares (ENMM) in Castellón (Spain)